

2008-11-12 1422-0714PUS1_ST25
SEQUENCE LISTING

<110> YASUMOTO, Masazumi
SHIMADA, Masamitsu
HINO, Fumitsugu
KATO, Ikunoshin

<120> COMPOSITION FOR INHIBITING FUNCTION OF HUMAN FLT3

<130> 1422-0714PUS1

<140> US 10/574,904

<141> 2006-04-06

<150> PCT/JP2004/014851

<151> 2004-10-07

<150> JP2003-350253

<151> 2003-10-09

<160> 40

<170> PatentIn version 3.5

<210> 1

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide: A partial cDNA sequence of ATP-binding site

<400> 1

aaggtactag gatcaggtgc t

21

<210> 2

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide: Designated as SEQ1-S

<220>

<221> misc_feature

<222> (1)..(19)

<223> ribonucleotides

<220>

<221> misc_feature

<222> (20)..(21)

<223> deoxyribonucleotides

<400> 2

gguacuagga ucaggugcut t

21

<210> 3

<211> 21

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Designated as SEQ1-AS

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 3
 agcaccugau ccuaguacct t 21

<210> 4
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: A partial cDNA sequence of TK domain

<400> 4
 aacaggagtc tcaatccagg t 21

<210> 5
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Designated as SEQ2-S

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 5
 caggagucuc aauccaggut t 21

<210> 6
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Designated as SEQ2-AS

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 6
 accuggauug agacuccugt t 21

<210> 7
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: A partial cDNA sequence of FLT3/ITD domain

<400> 7
 aatatgaata tgatctcaaa t 21

<210> 8
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Designated as SEQ3-S

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 8
 uaugaauaug aucucaaaut t 21

<210> 9
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Designated as SEQ3-AS

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 9
 auuugagauc auauucauat t

21

<210> 10
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide: A partial cDNA sequence of bcr/abl chimera domain

<400> 10
 aagcagagtt caaaagcccu u

21

<210> 11
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide

<220>
 <220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 11
 gcagaguuca aaagcccuut t

21

<210> 12
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 12
 aagggcuuuu gaacucugct t 21

<210> 13
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: PCR primer FLT11F for amplifying a gene encoding FLT3

<400> 13
 gcaatttagg tatgaaagcc agc 23

<210> 14
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: PCR primer FLT12R for amplifying a gene encoding FLT3

<400> 14
 ctttcagcat ttgacggca acc 23

<210> 15
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: PCR primer G1 for amplifying a gene encoding GAPDH

<400> 15
 caacagcctc aagatcatca gc 22

<210> 16
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: PCR primer G2 for amplifying a gene encoding GAPDH

<400> 16
ttctagacgg caggtcaggt c 21

<210> 17
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide: Expression cassette FLT3SI1F for
expressing siRNA for ATP-binding domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> BamHI restriction site

<220>
<221> misc_feature
<222> (26)..(34)
<223> loop site

<220>
<221> misc_feature
<222> (54)..(59)
<223> RNA polymerase III terminator

<400> 17
gatcccggtg ctaggatcag gtgctttcaa gagaagcacc tgatcctagt accttttttg 60
gaaa 64

<210> 18
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide: Expression cassette FLT3SI1R for
expressing siRNA for ATP-binding domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> HindIII restriction site

<220>
<221> misc_feature
<222> (10)..(15)
<223> RNA polymerase III terminator site

<220>
<221> misc_feature
<222> (35)..(43)
<223> loop

<400> 18
agctttttcca aaaaaggtac taggatcagg tgcttctctt gaaagcacct gatcctagta 60

ccgg

64

<210> 19
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide: Expression cassette FLT3CON1F for
 expressing control sequence

<220>
 <221> misc_feature
 <222> (1)..(5)
 <223> BamHI restriction site

<220>
 <221> misc_feature
 <222> (26)..(34)
 <223> loop site

<220>
 <221> misc_feature
 <222> (54)..(59)
 <223> RNA polymerase III terminator site

<400> 19
 gatcccgag tcgtagctgc agtatttcaa gagaatactg cagctacgac tccttttttg 60

gaaa 64

<210> 20
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide: Expression cassette FLT3CON1R for
 expressing control sequence

<220>
 <221> misc_feature
 <222> (1)..(5)
 <223> HindIII restriction site

<220>
 <221> misc_feature
 <222> (10)..(15)
 <223> RNA polymerase III terminator site

<220>
 <221> misc_feature
 <222> (35)..(43)
 <223> loop

<400> 20
 agcttttcca aaaaaggagt cgtagctgca gtattctctt gaaatactgc agctacgact 60

ccgg 64

<210> 21
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Expression cassette FLT3SI3F for expressing siRNA for FLT3/ITD domain

<220>
 <221> misc_feature
 <222> (1)..(5)
 <223> BamHI restriction site

<220>
 <221> misc_feature
 <222> (26)..(34)
 <223> loop site

<220>
 <221> misc_feature
 <222> (54)..(59)
 <223> RNA polymerase III terminator

<400> 21
 gatccctatg aatatgatct caaatttcaa gagaatttga gatcatattc atattttttg 60
 gaaa 64

<210> 22
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD domain

<220>
 <221> misc_feature
 <222> (1)..(5)
 <223> HindIII restriction site

<220>
 <221> misc_feature
 <222> (10)..(15)
 <223> RNA polymerase III terminator site

<220>
 <221> misc_feature
 <222> (35)..(43)
 <223> loop

<400> 22
 agcttttcca aaaaatatga atatgatctc aaattctctt gaaatttgag atcatattca 60
 tagg 64

<210> 23
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide: Expression cassette FLT3CON3F for
 expressing control sequence

<220>
 <221> misc_feature
 <222> (1)..(5)
 <223> BamHI restriction site

<220>
 <221> misc_feature
 <222> (26)..(34)
 <223> loop site

<220>
 <221> misc_feature
 <222> (54)..(59)
 <223> RNA polymerase III terminator site

<400> 23
 gatccaata atttgcttca aagatttcaa gagaatcttt gaagcaaatt attttttttg 60
 gaaa 64

<210> 24
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide: Expression cassette FLT3CON3R for
 expressing control sequence

<220>
 <221> misc_feature
 <222> (1)..(5)
 <223> HindIII restriction site

<220>
 <221> misc_feature
 <222> (10)..(15)
 <223> RNA polymerase III terminator site

<220>
 <221> misc_feature
 <222> (35)..(43)
 <223> loop

<400> 24
 agcttttcca aaaaaaataa ttgcttcaa agattctctt gaaatctttg aagcaaatta 60
 ttgg 64

<210> 25
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: 5' sequencing primer

 <400> 25
 taatacgact cactataggg 20

<210> 26
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: 3' sequencing primer

 <400> 26
 aggcgattaa gttgggta 18

<210> 27
 <211> 144
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: Juxtamembrane domain

 <400> 27
 tgtcacaagt acaaaaagca atttaggtat gaaagccagc tacagatggg acaggtgacc 60
 ggctcctcag ataatgagta cttctacgtt gatttcagag aatatgaata tgatctcaaa 120
 tgggagtttc caagagaaaa ttta 144

<210> 28
 <211> 471
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: Tyrosine kinase domain

 <400> 28
 acgcaacagc ttatggaatt agcaaaacag gagtctcaat ccagggtgcc gtcaaaatgc 60
 tgaaagaaaa agcagacagc tctgaaagag aggcactcat gtcagaactc aagatgatga 120
 cccagctggg aagccacgag aatattgtga acctgctggg ggcgtgcaca ctgtcaggac 180
 caatttactt gatttttgaa tactgttgct atggatgatct tctcaactat ctaagaagta 240
 aaagagaaaa atttcacagg acttggacag agattttcaa ggaacacaat ttcagttttt 300
 accccacttt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac 360
 acccggaactc ggatcaaatc tcagggcttc atgggaattc atttcactct gaagatgaaa 420

ttgaatatga aaaccaaaaa aggctggaag aagaggagga cttgaatgtg c

471

<210> 29
 <211> 517
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: ATP-binding domain

<400> 29
 gagtttggga aggtactagg atcaggtgct tttggaaaag tgatgaacgc aacagcttat 60
 ggaattagca aaacaggagt ctcaatccag gttgccgtca aaatgctgaa agaaaaagca 120
 gacagctctg aaagagaggc actcatgtca gaactcaaga tgatgacca gctgggaagc 180
 cacgagaata ttgtgaacct gctggggggcg tgcacactgt caggaccaat ttacttgatt 240
 tttgaatact gttgctatgg tgatcttctc aactatctaa gaagtaaaag agaaaaattt 300
 cacaggactt ggacagagat tttcaaggaa cacaatttca gtttttacct cactttccaa 360
 tcacatccaa attccagcat gcctgggttca agagaagttc agatacacc ggactcggat 420
 caaatctcag ggcttcatgg gaattcattt cactctgaag atgaaattga atatgaaaac 480
 caaaaaaggc tggaagaaga ggaggacttg aatgtgc 517

<210> 30
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 30
 gguuauquac aggaacgcat t

21

<210> 31
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

 <220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

 <400> 31
 ugcguuccug uacauaacct t 21

 <210> 32
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide: A partial cDNA sequence of ATP-binding domain

 <400> 32
 ggtactagga tcaggtgct 19

 <210> 33
 <211> 19
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide: siRNA

 <400> 33
 gguacuagga ucaggugcu 19

 <210> 34
 <211> 19
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide: siRNA

 <400> 34
 agcaccugau ccuaguacc 19

 <210> 35
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide: A partial cDNA sequence of TK domain

 <400> 35
 caggagtctc aatccaggt 19

<210> 36
 <211> 19
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: siRNA

 <400> 36
 caggagucuc aauccaggu 19

<210> 37
 <211> 19
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: siRNA

 <400> 37
 accuggauug agacuccug 19

<210> 38
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: A partial cDNA sequence of FLT3/ITD domain

 <400> 38
 tatgaatatg atctcaa 19

<210> 39
 <211> 19
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: siRNA

 <400> 39
 uaugaaauug aucucaa 19

<210> 40
 <211> 19
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide: siRNA

 <400> 40
 auuugagauc auaucaua 19